

ABSTRACT OF THE DISCLOSURE

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A nozzle for the injection of fluid into a molding chamber is provided. The nozzle includes a hollow passage having a distal end for connecting a pressurized fluid supply to the interior of the chamber and a pin extending through the passage, the pin being reciprocal between an extended position and a retracted position. The pin has an enlarged distal portion substantially blocks the passage when the pin is retracted. The pin has a pressure surface exposed to pressurized fluid from the hollow passage and an actuator operably coupled to the pin. Fluid pressure on the pressure surface and the action of the actuator reciprocates the pin.

ABSTRACT OF THE DISCLOSURE

Automated Pin for Gas Assisted Injection Molding System

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A nozzle for the injection of fluid into a molding chamber is provided. The nozzle includes a hollow passage having a distal end for connecting a pressurized fluid supply to the interior of the chamber and a pin extending through the passage, the pin being reciprocal between an extended position and a retracted position. The pin has an enlarged distal portion extending beyond the distal end of the passage that substantially blocks the passage when the pin is retracted. The pin has a pressure surface exposed to pressurized fluid from the hollow passage and an actuator operably coupled to the pin. Fluid pressure on the pressure surface and the action of the actuator reciprocates the pin.
